P.O. Box 429, 805 Greenlawn Road, Murphy, NC 28906 Tel: (828) 837-4029 www.aegispower.com

Aegis Power Solution

1PH604

VME
Power Converter

(Rev A02, 06/08/10)

Specifications: ***(25ºC, nominal line, 100% load unless otherwise specified).***

AC Input Voltage:	Normal 95VAC to 250VAC, 47Hz to 63Hz. Transient 70VAC to 270VAC, 100 msec. Mil-Std-704F Normal and abnormal range. Mil-Std-1399 Section 300A/B Type 1 60Hz.
AC Input Line Current:	4.1A @ 115VAC, 2.1A@220VAC.
Input Power:	455W@ 115VAC, 450W@220VAC , typical.
Power Factor:	0.9 typical 47-63Hz.
Input Frequency:	47-63Hz.
Output Power:	375W Max. All outputs combined.
Holdup Time:	2 msec typical.
Output Voltages:	(-001) +5VDC 40A, 50mVp-p (20MHz BW), 200W. +3.3VDC, 45A, 50mVp-p (20MHz BW), 150W. +12VDC, 5A, 150mVp-p (20MHz BW), 60W. -12VDC, 1A, 150mVp-p (20MHz BW), 12W.
Efficiency:	83%/115VAC, 86%/220VAC typical. full load.
Startup Time:	500 millisecond Max.
Voltage Setpoint, Line/Load Regulation:	+/- 2.5% (any combination).
Current Limit:	Short Circuit protected, automatic recovery.
Temperature Regulation:	+/-0.01% / deg C.
Size:	6U x 160mm x 5hp(1") see mechanical drawing.
Weight:	3.5 lb. Typical.
Connector:	Positronic, PCIM30W15M400A1.
Vibration:	MIL-STD-810F, Method 514.5, Procedure 1.
Shock:	MIL-STD-810F, Method 516.5, Procedure 1.
Humidity:	0-95% non-condensing.
EMI:	Mil-Std-461E, CE102, CS101.

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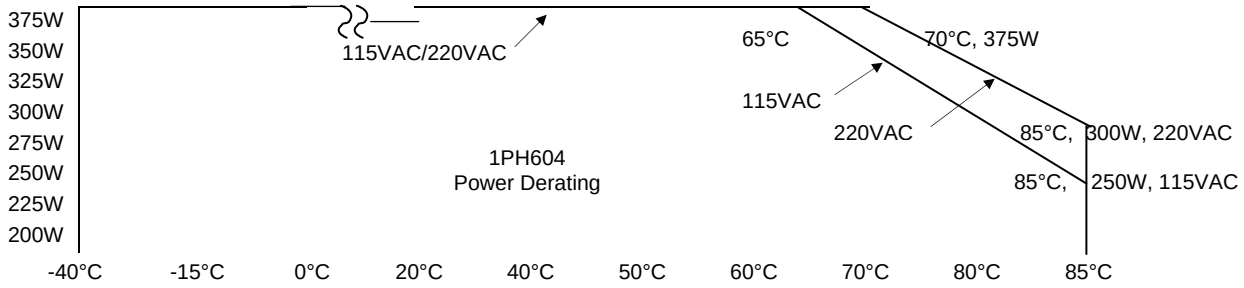
1PH604

115/220VAC 1phase, 47-63Hz 375W Power Card

Power Derating for Temperature and Input Voltage per below Graph



Baseplate Cooling temperature at Wedgelocks

Order Info: 1PH604-001 28VDC Out 375W
4 Outputs as specified above

DWG NO.	SH	REV

REVISIONS

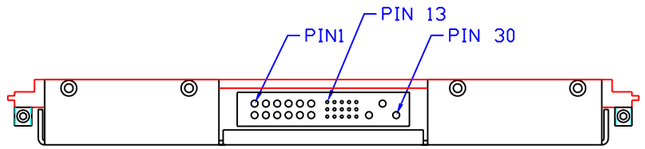
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A01	INITIAL RELEASE	09/24/09	MVM
	A02	REV A02 BASEPLATE	09/30/09	MVM
	A03	MOVED WEDGE LOCATION	10/06/09	MVM

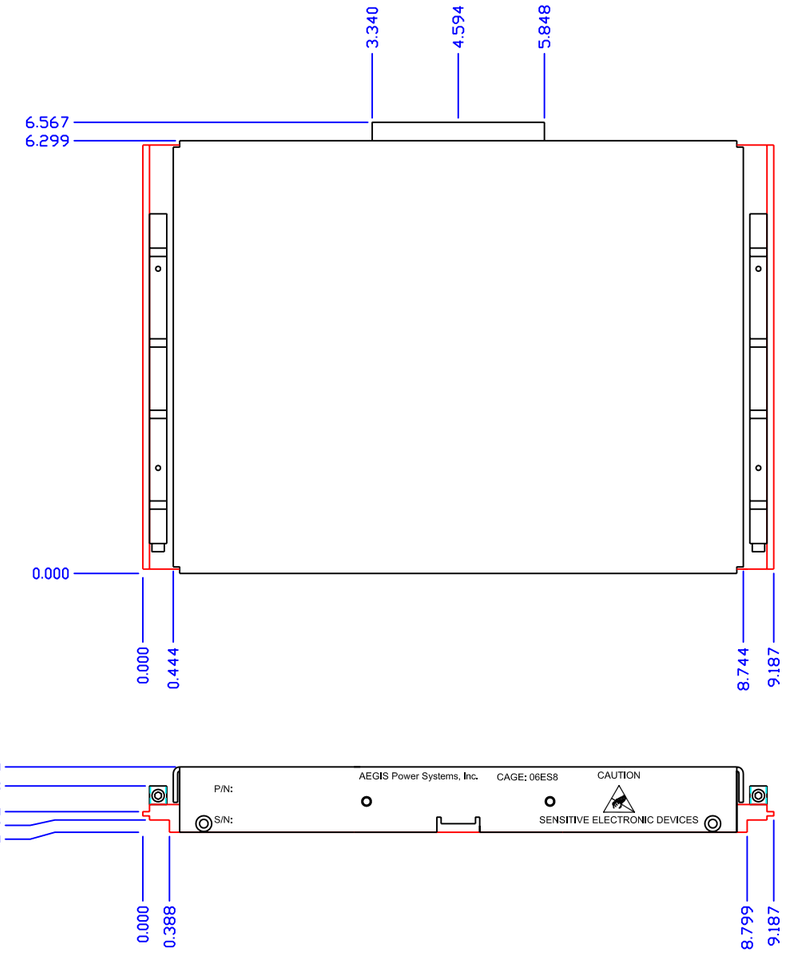
NOTES: UNLESS OTHERWISE SPECIFIED

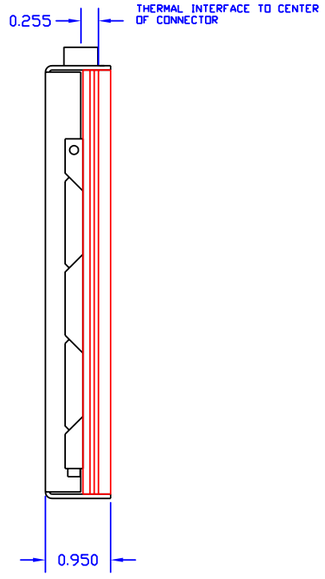
1. TYPE 1, 6U PLUG-IN UNIT - PRIMARY SIDE RETAINER. 1.00 INCH PITCH. (FIGURE 10 OF VITA 48.2, 12/26/07)
2. CONNECTOR POSITRONIC PCIM30W15M400A1
3. PIN1-12 = 28AMP RATING, PIN13-27 = 3AMP RATING, PIN28,29 AND 30 = 40AMP RATING

J1:1 - V1 RETURN
J1:2 - V2 RETURN
J1:3 - V1 RETURN
J1:4 - V2 RETURN
J1:5 - V1 RETURN
J1:6 - V3 RETURN
J1:7 - V1 +OUT
J1:8 - V2 +OUT
J1:9 - V1 +OUT
J1:10 - V2 +OUT
J1:11 - V1 +OUT
J1:12 - V3 +OUT
J1:13 - V4 RETURN
J1:14 - V4 +OUT
J1:15 - V1 +SENSE
J1:16 - V1 SHARE+
J1:17 - V1 SHARE-
J1:18 - V1 -SENSE
J1:19 - V3 SHARE+
J1:20 - V3 SHARE-
J1:21 - NC
J1:22 - V4 SHARE+
J1:23 - V4 SHARE-
J1:24 - V2 SHARE+
J1:25 - V2 SHARE-
J1:26 - V2 -SENSE
J1:27 - V2 +SENSE
J1:28 - CHASSIS
J1:29 - NEUTRAL
J1:30 - LINE

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.







NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± N/A DECIMALS .XX ± .02 .XXX ± .005 DEGREES ± .5

MATERIAL: SEE NOTE 2

FINISH: SEE NOTE 3

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN MVM	06/16/09
CHECKED	
PROJ. ENG.	
MFG.	
QUALITY	

AEGIS POWER SYSTEMS
MURPHY, NORTH CAROLINA

TITLE: VME SINLE PHASE PFC 375W MECHANICAL LAYOUT
AEGIS P/N: 1PH604

SIZE	FSCM NO.	DWG NO.	REV
D	06ES8	1PH604-M00	A03

SCALE 1/1 SHEET 1 OF 1